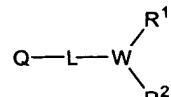


**WHAT IS CLAIMED IS:**

1           1.     A compound having the formula (I):



**I**

or a pharmaceutically acceptable salt, hydrate, solvate or prodrug thereof, wherein  
W is a 5-6, 6-6 or 5-5 or fused bicyclic ring system, wherein one or both rings are  
aromatic, containing a nitrogen atom and from 0 to 3 additional heteroatoms  
selected from the group consisting of N, O and S, wherein

(i)     the ring fusion atoms are independently CH or N, with the  
proviso that the ring fusion atoms are not both N; and

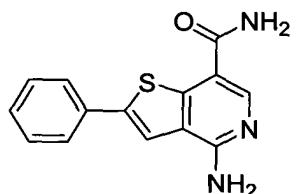
(ii)    the atoms to which L, R<sup>1</sup> and R<sup>2</sup> are attached are independently  
selected from the group consisting of =C-, -CH- and -N-;

R<sup>1</sup> is selected from the group consisting of -C(O)NR<sup>1a</sup>R<sup>1b</sup>, -C(O)R<sup>1a</sup>, -CH(=NOH),  
-N(R<sup>1b</sup>)C(O)R<sup>1a</sup>, -SO<sub>2</sub>NR<sup>1a</sup>R<sup>1b</sup>, -SO<sub>2</sub>R<sup>1a</sup>, -C(O)N(R<sup>1a</sup>)OR<sup>1b</sup>, -(C<sub>1</sub>-C<sub>4</sub>)alkylene-  
N(R<sup>1b</sup>)C(O)R<sup>1a</sup>, -(C<sub>1</sub>-C<sub>4</sub>)alkylene-C(O)NR<sup>1a</sup>R<sup>1b</sup> and heteroaryl; wherein R<sup>1a</sup> and  
R<sup>1b</sup> are selected from hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>4</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)heteroalkyl,  
hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkyl, fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl,  
mono- or di-hydroxycyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-  
C<sub>8</sub>)alkyl-(C<sub>1</sub>-C<sub>4</sub>)alkyl; and optionally, R<sup>1a</sup> is attached to an adjacent ring member  
of W relative to the point of attachment of R<sup>1</sup> to form an additional 5- or 6-  
membered fused ring, or R<sup>1a</sup> and R<sup>1b</sup> are combined with their intervening atoms to  
form a 3-, 4-, 5- or 6-membered ring;

R<sup>2</sup> is selected from the group consisting of -NR<sup>2a</sup>R<sup>2b</sup> and -OH; wherein R<sup>2a</sup> and R<sup>2b</sup> are  
selected from hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>4</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)heteroalkyl, mono-  
or di-hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkyl, fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyclo(C<sub>3</sub>-  
C<sub>8</sub>)alkyl, mono- or di-hydroxycyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl,  
heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl-(C<sub>1</sub>-C<sub>4</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, heteroaryl,  
heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkyl, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkoxy, -C(O)-  
heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl and C(O)-fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl; and optionally, R<sup>2a</sup> and R<sup>2b</sup>  
may be combined with the nitrogen atom to which each is attached to form a 5-, 6-  
or 7-membered ring containing from 1-3 heteroatoms selected from N, O and S;

31 L is a divalent linkage selected from the group consisting of a single bond, (C<sub>1</sub>-  
32 C<sub>4</sub>)alkylene, -C(O)-, -C(O)N(R<sup>3</sup>)-, -SO<sub>2</sub>N(R<sup>3</sup>)-, -C(R<sup>3</sup>)=C(R<sup>4</sup>)-, -O-, -S-  
33 and -N(R<sup>3</sup>)-; wherein R<sup>3</sup> and R<sup>4</sup> are independently selected from the group  
34 consisting of hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl,  
35 hetero(C<sub>1</sub>-C<sub>6</sub>)alkyl, heterocyclo(C<sub>5</sub>-C<sub>8</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl  
36 and arylhetero(C<sub>1</sub>-C<sub>4</sub>)alkyl;

37 Q is selected from the group consisting of (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy,  
38 halogen, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, heteroaryl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, cyclo(C<sub>5</sub>-C<sub>8</sub>)alkenyl  
39 and heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, wherein each of the moieties is optionally further  
40 substituted, with the proviso that said compound is other than



1                           2.       The compound of Claim 1, wherein Q is selected from the group  
2       consisting of phenyl, naphthyl, pyridyl, furyl, thienyl, thiazolyl, isothiazolyl, triazolyl,  
3       imidazolyl, oxazolyl, isoxazolyl, pyrrolyl, pyrrolidinyl, pyrazolyl, pyrazinyl, pyridazinyl,  
4       pyrimidyl, benzofuryl, tetrahydrobenzofuryl, isobenzofuryl, benzthiazolyl, benzoisothiazolyl,  
5       benzotriazolyl, indolyl, isoindolyl, benzoxazolyl, quinolyl, tetrahydroquinolyl, isoquinolyl,  
6       benzimidazolyl, benzisoxazolyl, benzothienyl, cyclopentyl and cyclohexyl.

10 X is (C<sub>1</sub>-C<sub>6</sub>)alkylene; and

11 R', R'' and R''' are independently selected from the group consisting of hydrogen,  
12 (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>4</sub>)alkenyl, (C<sub>1</sub>-C<sub>6</sub>)heteroalkyl, hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkyl,  
13 fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)haloalkyl, cyclo(C<sub>3</sub>-  
14 C<sub>8</sub>)alkyl, mono- or di-hydroxycyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl,  
15 heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl-(C<sub>1</sub>-C<sub>4</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, heteroaryl,  
16 heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkyl, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkoxy, -C(O)-  
17 heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl and -C(O)-fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl; and optionally, any  
18 two of R', R'' and R''' can be combined with their intervening atom(s) to  
19 form a 5-, 6- or 7-membered ring containing from 1-3 heteroatoms selected  
20 from N, O and S.

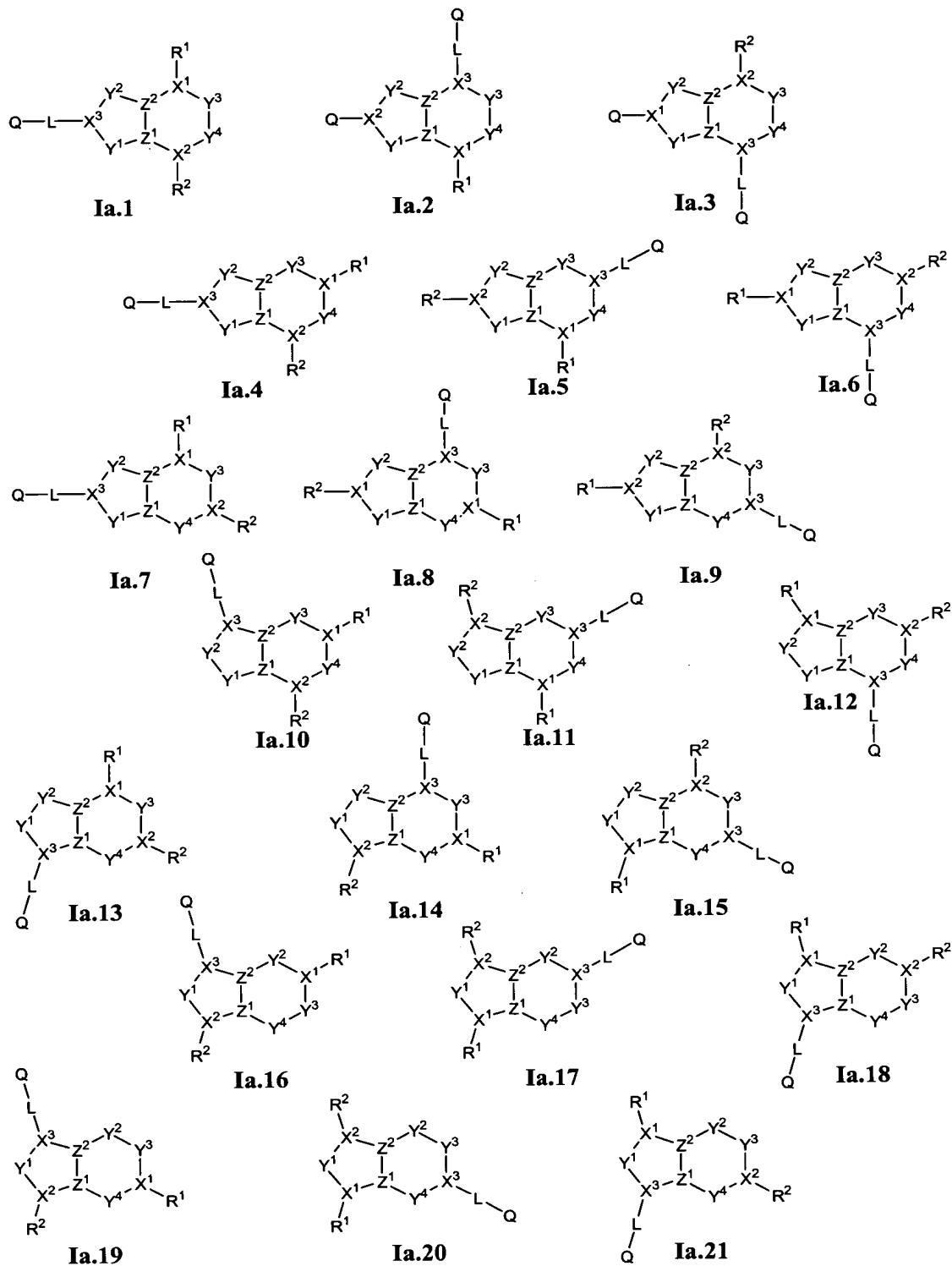
1 4. The compound of Claim 1, wherein Q is unsubstituted thienyl or  
2 thienyl substituted with from 1 to 3 substituents selected from the group consisting of  
3 halogen, cyano, nitro, cyano(C<sub>2</sub>-C<sub>6</sub>)alkenyl, nitro(C<sub>2</sub>-C<sub>6</sub>)alkenyl, -R', -OR', -NR'R'',  
4 -C(O)R', -CO<sub>2</sub>R', -C(O)NR'R'', -NR''C(O)R', -NR''CO<sub>2</sub>R', -NR'C(O)NR''R''', -S(O)R',  
5 -SO<sub>2</sub>R', -SO<sub>2</sub>NR'R'', -NR''SO<sub>2</sub>R', -OC(O)NR'R'', -X-C(O)R', -X-CO<sub>2</sub>R',  
6 -X-C(O)NR'R'', -X-NR''C(O)R', -X-NR''CO<sub>2</sub>R', -X-NR'C(O)NR''R''', -X-S(O)R',  
7 -X-SO<sub>2</sub>R', -X-SO<sub>2</sub>NR'R'', -X-NR''SO<sub>2</sub>R' and -X-OC(O)NR'R'', and optionally R' or R'' is  
8 attached to an adjacent ring atom on the thienyl group to form a 5- or 6-membered fused ring;  
9 wherein

10 X is (C<sub>1</sub>-C<sub>6</sub>)alkylene; and

11 R', R'' and R''' are independently selected from the group consisting of hydrogen,  
12 (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>4</sub>)alkenyl, (C<sub>1</sub>-C<sub>6</sub>)heteroalkyl, hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkyl,  
13 fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)haloalkyl, cyclo(C<sub>3</sub>-  
14 C<sub>8</sub>)alkyl, mono- or di-hydroxycyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl,  
15 heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl-(C<sub>1</sub>-C<sub>4</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, heteroaryl,  
16 heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkyl, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkoxy, -C(O)-  
17 heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl and -C(O)-fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl; and optionally, any  
18 two of R', R'' and R''' can be combined with their intervening atom(s) to  
19 form a 5-, 6- or 7-membered ring containing from 1-3 heteroatoms selected  
20 from N, O and S.

1                   **5.**       The compound of Claim 1, wherein R<sup>1</sup> is selected from the group  
2   consisting of -C(O)NR<sup>1a</sup>R<sup>1b</sup>, -SO<sub>2</sub>NR<sup>1a</sup>R<sup>1b</sup>, -SO<sub>2</sub>R<sup>1a</sup>, -C(O) R<sup>1a</sup>, imidazolyl, pyrazolyl,  
3   tetrazolyl, oxazolyl, thiazolyl, thienyl and pyridyl.

1                   **6.**       The compound of Claim 1, having a formula selected from the group  
2   consisting of:



9         $Z^1$  and  $Z^2$  are independently CH or N;  
10      each  $R^5$  and  $R^6$  is independently selected from the group consisting of hydrogen, ( $C_1$ -  
11       $C_6$ )alkyl, cyclo( $C_3$ - $C_8$ )alkyl, halogen, aryl, aryl( $C_1$ - $C_4$ )alkyl, hetero( $C_1$ - $C_6$ )alkyl,  
12      heterocyclo( $C_5$ - $C_8$ )alkyl, heteroaryl, heteroaryl( $C_1$ - $C_4$ )alkyl and arylhetero( $C_1$ -  
13       $C_4$ )alkyl; and

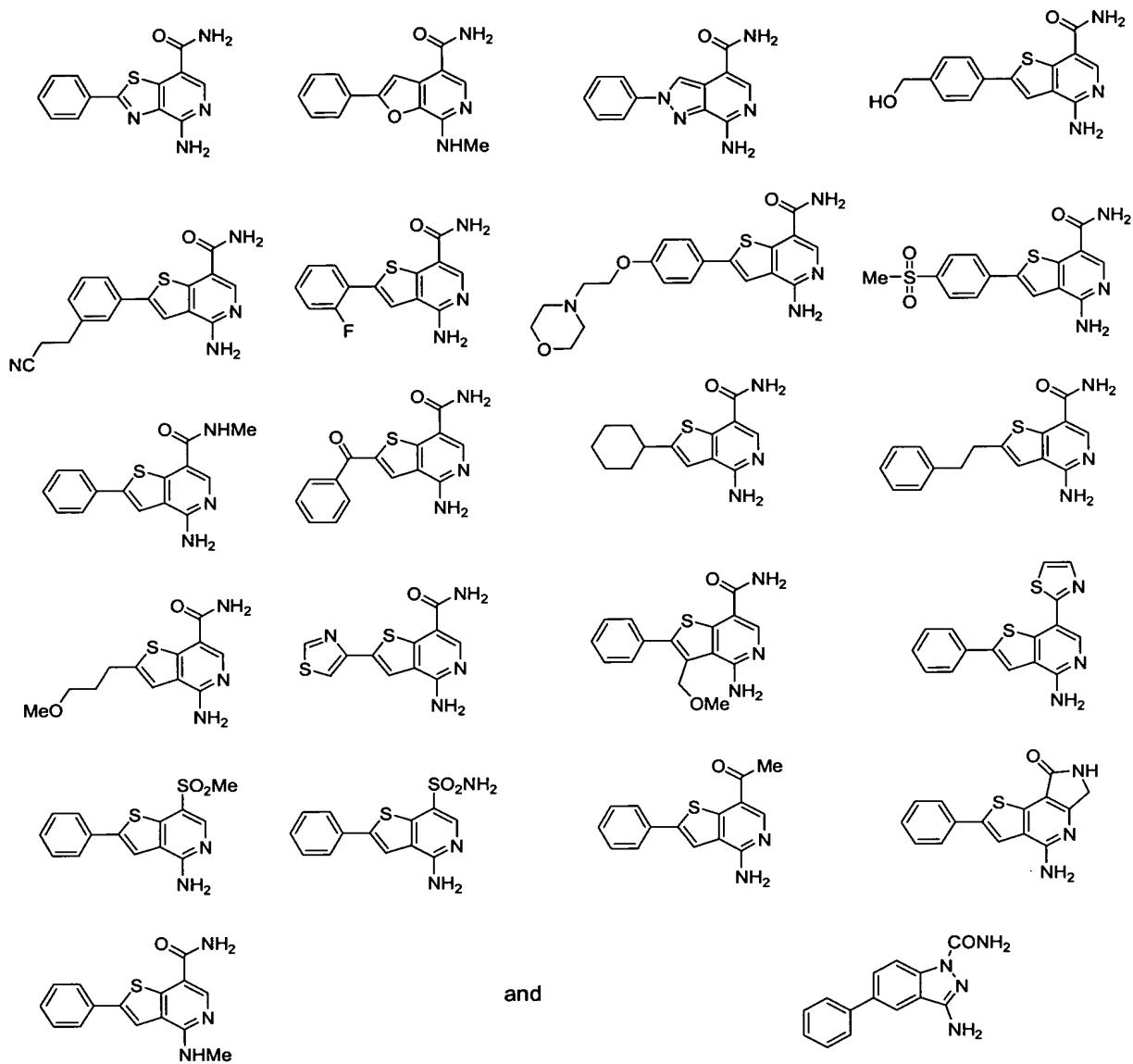
14      each  $R^{5a}$  is independently selected from the group consisting of hydrogen, halogen, ( $C_1$ -  
15       $C_6$ )alkyl, cyclo( $C_3$ - $C_8$ )alkyl, halogen, aryl, aryl( $C_1$ - $C_4$ )alkyl, hetero( $C_1$ - $C_6$ )alkyl,  
16      heterocyclo( $C_5$ - $C_8$ )alkyl, heteroaryl, heteroaryl( $C_1$ - $C_4$ )alkyl and arylhetero( $C_1$ -  
17       $C_4$ )alkyl; and

18      the subscript m is an integer of from 0 to 2.

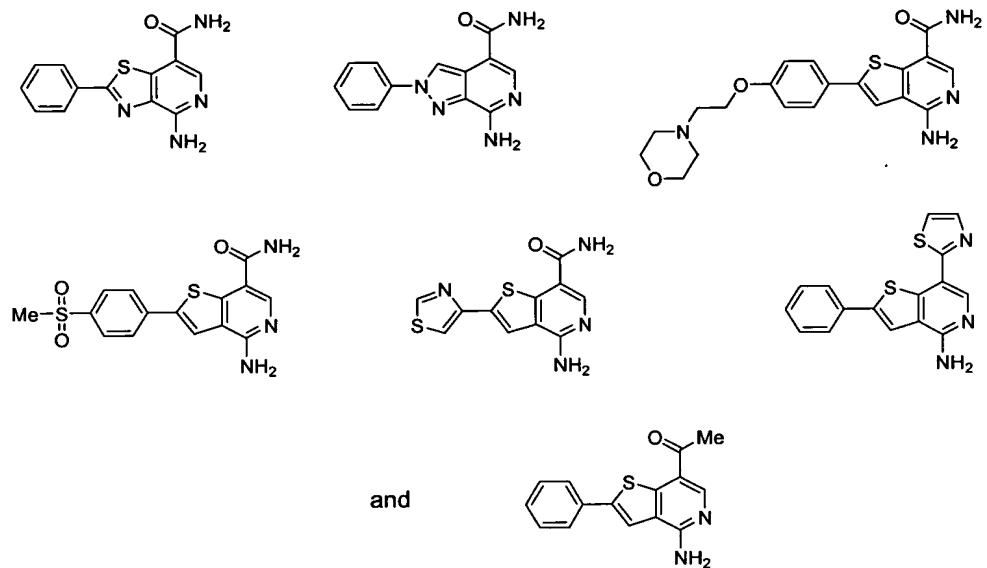
1              7.      The compound of Claim 5, wherein  $R^2$  is  $-NHR^{2b}$ .

1              8.      The compound of Claim 5, wherein  $R^1$  is selected from the group  
2      consisting of  $-C(O)NHR^{1a}$ ,  $-SO_2NHR^{1a}$ ,  $-SO_2R^{1a}$ ,  $-C(O)CH_3$  and thiazolyl and  $R^2$  is  
3       $-NHR^{2b}$ .

1              9.      The compound of Claim 8, having a formula selected from the group  
2      consisting of:

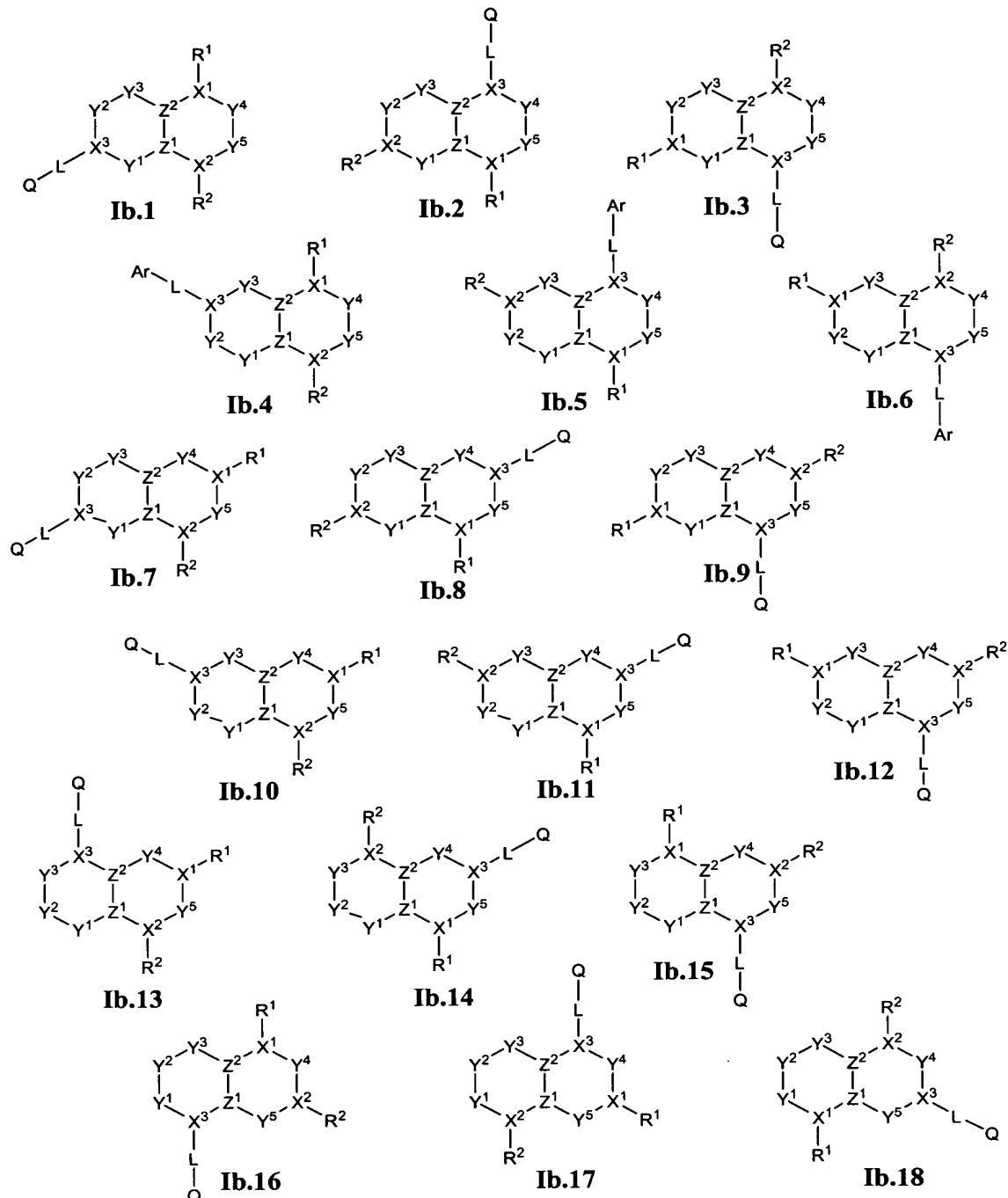


1                   **10.**    The compound of Claim 8, having a formula selected from the group  
 2    consisting of:



3

1                           **11.**    The compound of Claim 1, having a formula selected from the group  
2 consisting of:



10 each  $R^5$  and  $R^6$  is independently selected from the group consisting of hydrogen, ( $C_1$ -  
11  $C_6$ )alkyl, cyclo( $C_3$ - $C_8$ )alkyl, aryl, aryl( $C_1$ - $C_4$ )alkyl, hetero( $C_1$ - $C_6$ )alkyl,  
12 heterocyclo( $C_5$ - $C_8$ )alkyl, heteroaryl, heteroaryl( $C_1$ - $C_4$ )alkyl and arylhetero( $C_1$ -  
13  $C_4$ )alkyl;  
14 each  $R^{5a}$  is independently selected from the group consisting of hydrogen, halogen, ( $C_1$ -  
15  $C_6$ )alkyl, cyclo( $C_3$ - $C_8$ )alkyl, aryl, aryl( $C_1$ - $C_4$ )alkyl, hetero( $C_1$ - $C_6$ )alkyl,  
16 heterocyclo( $C_5$ - $C_8$ )alkyl, heteroaryl, heteroaryl( $C_1$ - $C_4$ )alkyl and arylhetero( $C_1$ -  
17  $C_4$ )alkyl; and

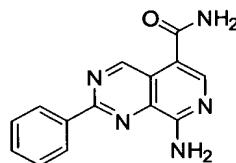
18 the subscript m is an integer of from 0 to 2.

1 12. The compound of Claim 11, wherein  $R^2$  is  $-NHR^{2b}$ .

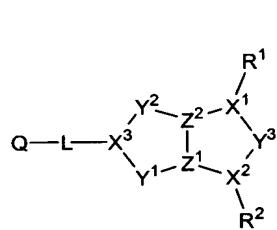
1 13. The compound of Claim 11, wherein  $R^1$  is selected from the group  
2 consisting of  $-C(O)NHR^{1a}$ ,  $-SO_2NHR^{1a}$  and  $-C(O)CH_3$  and  $R^2$  is  $-NHR^{2b}$ .

1 14. The compound of Claim 11, wherein  $R^1$  is  $-C(O)NH_2$  and  $R^2$  is  $-NH_2$ .

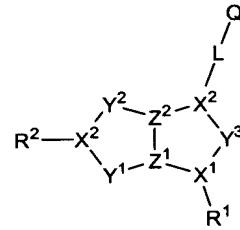
1 15. The compound of Claim 11, having the formula:



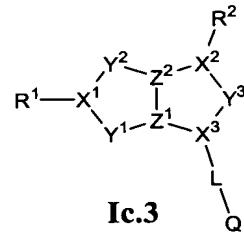
1 16. The compound of Claim 1, having a formula selected from the group  
2 consisting of:



3 Ic.1



Ic.2



Ic.3

4 wherein

5  $X^1$ ,  $X^2$  and  $X^3$  are independently selected from the group consisting of  $=C-$ ,  $-CH-$  and  
6  $-N-$ ;

7  $Y^1$ ,  $Y^2$  and  $Y^3$  are independently selected from the group consisting of  $=C(R^{5a})-$ ,  
8  $-C(R^5)(R^6)-$ ,  $-C(O)-$ ,  $=N-$ ,  $-N(R^5)-$ ,  $-O-$  and  $-S(O)_m-$ ;

Z<sup>1</sup> and Z<sup>2</sup> are independently CH or N;  
each R<sup>5</sup> and R<sup>6</sup> is independently selected from the group consisting of hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, hetero(C<sub>1</sub>-C<sub>6</sub>)alkyl, heterocyclo(C<sub>5</sub>-C<sub>8</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl and arylhetero(C<sub>1</sub>-C<sub>4</sub>)alkyl;  
each R<sup>5a</sup> is independently selected from the group consisting of hydrogen, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, hetero(C<sub>1</sub>-C<sub>6</sub>)alkyl, heterocyclo(C<sub>5</sub>-C<sub>8</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl and arylhetero(C<sub>1</sub>-C<sub>4</sub>)alkyl; and

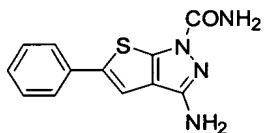
the subscript m is an integer of from 0 to 2.

17. The compound of Claim 16, wherein  $R^2$  is  $-NHR^{2b}$ .

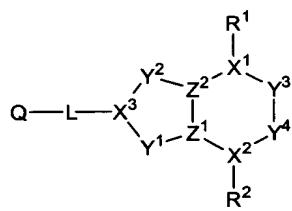
1                           18. The compound of Claim 16, wherein R<sup>1</sup> is selected from the group  
2 consisting of from -C(O)NHR<sup>1a</sup>, -SO<sub>2</sub>NHR<sup>1a</sup> and -C(O)CH<sub>3</sub> and R<sup>2</sup> is -NHR<sup>2b</sup>.

19. The compound of Claim 16, wherein  $R^1$  is  $-C(O)NH_2$  and  $R^2$  is  $-NH_2$ .

**20.** The compound of Claim 16, having the formula:



21. A compound having the formula (Ia.1):



### Ia.1

or a pharmaceutically acceptable salt, hydrate, solvate or prodrug thereof, wherein R<sup>1</sup> is selected from the group consisting of -C(O)NR<sup>1a</sup>R<sup>1b</sup>, -C(O)R<sup>1a</sup>, -CH(=NOH), -N(R<sup>1b</sup>)C(O)R<sup>1a</sup>, -SO<sub>2</sub>NR<sup>1a</sup>R<sup>1b</sup>, -SO<sub>2</sub>R<sup>1a</sup>, -C(O)N(R<sup>1a</sup>)OR<sup>1b</sup>, -(C<sub>1</sub>-C<sub>4</sub>)alkylene-N(R<sup>1b</sup>)C(O)R<sup>1a</sup>, -(C<sub>1</sub>-C<sub>4</sub>)alkylene-C(O)NR<sup>1a</sup>R<sup>1b</sup> and heteroaryl; wherein R<sup>1a</sup> and R<sup>1b</sup> are selected from hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>4</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)heteroalkyl, hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkyl, fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl,

9 mono- or di-hydroxycyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl-(C<sub>1</sub>-C<sub>4</sub>)alkyl; and optionally, R<sup>1a</sup> is attached to an adjacent ring member  
10 of W relative to the point of attachment of R<sup>1</sup> to form an additional 5- or 6-  
11 membered fused ring, or R<sup>1a</sup> and R<sup>1b</sup> are combined with their intervening atoms to  
12 form a 3-, 4-, 5- or 6-membered ring;

13 R<sup>2</sup> is selected from the group consisting of -NR<sup>2a</sup>R<sup>2b</sup> and -OH; wherein R<sup>2a</sup> and R<sup>2b</sup> are  
14 selected from hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>4</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)heteroalkyl, mono-  
15 or di-hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkyl, fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyclo(C<sub>3</sub>-  
16 C<sub>8</sub>)alkyl, mono- or di-hydroxycyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl,  
17 heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl-(C<sub>1</sub>-C<sub>4</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, heteroaryl,  
18 heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkyl, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkoxy, -C(O)-  
19 heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl and C(O)-fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl; and optionally, R<sup>2a</sup> and R<sup>2b</sup>  
20 may be combined with the nitrogen atom to which each is attached to form a 5-, 6-  
21 or 7-membered ring containing from 1-3 heteroatoms selected from N, O and S;  
22

23 L is a divalent linkage selected from the group consisting of a single bond, (C<sub>1</sub>-  
24 C<sub>4</sub>)alkylene, -C(O)-, -C(O)N(R<sup>3</sup>)-, -SO<sub>2</sub>N(R<sup>3</sup>)-, -C(R<sup>3</sup>)=C(R<sup>4</sup>)-, -O-, -S-  
25 and -N(R<sup>3</sup>)-; wherein R<sup>3</sup> and R<sup>4</sup> are independently selected from the group  
26 consisting of hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl,  
27 hetero(C<sub>1</sub>-C<sub>6</sub>)alkyl, heterocyclo(C<sub>5</sub>-C<sub>8</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl  
28 and arylhetero(C<sub>1</sub>-C<sub>4</sub>)alkyl;

29 Q is selected from the group consisting of (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy,  
30 halogen, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, heteroaryl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, cyclo(C<sub>5</sub>-C<sub>8</sub>)alkenyl  
31 and heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, wherein each of the moieties is optionally further  
32 substituted,

33 X<sup>1</sup>, X<sup>2</sup> and X<sup>3</sup> are independently selected from the group consisting of =C-, -CH- and  
34 -N-;

35 Y<sup>1</sup>, Y<sup>2</sup>, Y<sup>3</sup> and Y<sup>4</sup> are independently selected from the group consisting of =C(R<sup>5a</sup>)-,  
36 -C(R<sup>5</sup>)(R<sup>6</sup>)-, -C(O)-, =N-, -N(R<sup>5</sup>)-, -O- and -S(O)<sub>m</sub>-;

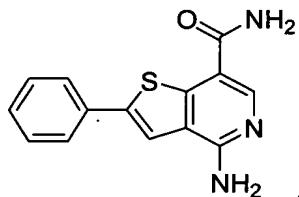
37 Z<sup>1</sup> and Z<sup>2</sup> are independently CH or N;

38 each R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> is independently selected from the group consisting of hydrogen,  
39 (C<sub>1</sub>-C<sub>6</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, hetero(C<sub>1</sub>-C<sub>6</sub>)alkyl,  
40 heterocyclo(C<sub>5</sub>-C<sub>8</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl and arylhetero(C<sub>1</sub>-  
41 C<sub>4</sub>)alkyl;

42 each R<sup>5a</sup> is independently selected from the group consisting of hydrogen, halogen, (C<sub>1</sub>-  
43 C<sub>6</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, hetero(C<sub>1</sub>-C<sub>6</sub>)alkyl,  
44 heterocyclo(C<sub>5</sub>-C<sub>8</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl and arylhetero(C<sub>1</sub>-  
45 C<sub>4</sub>)alkyl; and

46 the subscript m is an integer of from 0 to 2;

47 with the proviso that said compound is other than



48 .

1                   **22.**       The compound of **Claim 21**, wherein Q is selected from the group  
2 consisting of phenyl, naphthyl, pyridyl, furyl, thienyl, thiazolyl, isothiazolyl, triazolyl,  
3 imidazolyl, oxazolyl, isoxazolyl, pyrrolyl, pyrrolidinyl, pyrazolyl, pyrazinyl, pyridazinyl,  
4 pyrimidyl, benzofuryl, tetrahydrobenzofuryl, isobenzofuryl, benzthiazolyl, benzoisothiazolyl,  
5 benzotriazolyl, indolyl, isoindolyl, benzoxazolyl, quinolyl, tetrahydroquinolyl, isoquinolyl,  
6 benzimidazolyl, benzisoxazolyl, benzothienyl, cyclopentyl and cyclohexyl.

1                   **23.**       The compound of **Claim 21**, wherein Q is unsubstituted phenyl or  
2 phenyl substituted with from 1 to 3 substituents selected from the group consisting of  
3 halogen, cyano, nitro, cyano(C<sub>2</sub>-C<sub>6</sub>)alkenyl, nitro(C<sub>2</sub>-C<sub>6</sub>)alkenyl, -R', -OR', -NR'R'',  
4 -C(O)R', -CO<sub>2</sub>R', -C(O)NR'R'', -NR"C(O)R', -NR"CO<sub>2</sub>R', -NR'C(O)NR"R''', -S(O)R',  
5 -SO<sub>2</sub>R', -SO<sub>2</sub>NR'R'', -NR"SO<sub>2</sub>R', -OC(O)NR'R'', -X-C(O)R', -X-CO<sub>2</sub>R',  
6 -X-C(O)NR'R'', -X-NR"C(O)R', -X-NR"CO<sub>2</sub>R', -X-NR'C(O)NR"R''', -X-S(O)R',  
7 -X-SO<sub>2</sub>R', -X-SO<sub>2</sub>NR'R'', -X-NR"SO<sub>2</sub>R' and -X-OC(O)NR'R'', and optionally R' or R'' is  
8 attached to an adjacent ring atom on the phenyl group to form a 5- or 6-membered fused ring;  
9 wherein

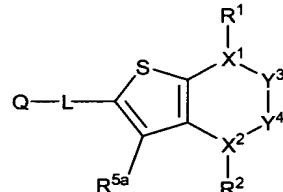
10                  X is (C<sub>1</sub>-C<sub>6</sub>)alkylene; and

11                  R', R'' and R''' are independently selected from the group consisting of hydrogen,  
12 (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>4</sub>)alkenyl, (C<sub>1</sub>-C<sub>6</sub>)heteroalkyl, hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkyl,  
13 fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)haloalkyl, cyclo(C<sub>3</sub>-  
14 C<sub>8</sub>)alkyl, mono- or di-hydroxycyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl,  
15 heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl-(C<sub>1</sub>-C<sub>4</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, heteroaryl,  
16 heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkyl, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkoxy, -C(O)-

17 heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl and -C(O)-fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl; and optionally, any  
18 two of R', R'' and R''' can be combined with their intervening atom(s) to  
19 form a 5-, 6- or 7-membered ring containing from 1-3 heteroatoms selected  
20 from N, O and S..

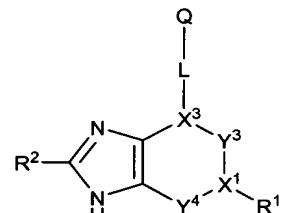
1 24. The compound of Claim 21, wherein R<sup>1</sup> is selected from the group  
2 consisting of -C(O)NR<sup>1a</sup>R<sup>1b</sup>, -SO<sub>2</sub>NR<sup>1a</sup>R<sup>1b</sup>, -SO<sub>2</sub>R<sup>1a</sup>, -C(O)R<sup>1a</sup>, imidazolyl, pyrazolyl,  
3 tetrazolyl, oxazolyl, thiazolyl, thienyl and pyridyl.

1 25. The compound of Claim 21, having the formula (III):



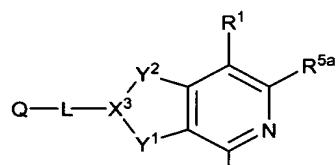
2 3 III.

1 26. The compound of Claim 21, having the formula (IV):



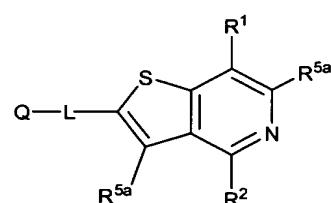
2 3 IV.

1 27. The compound of Claim 21, having the formula (V):



2 3 V.

1 28. The compound of Claim 21, having the formula (VI):



3  
4  
5  
6  
VI

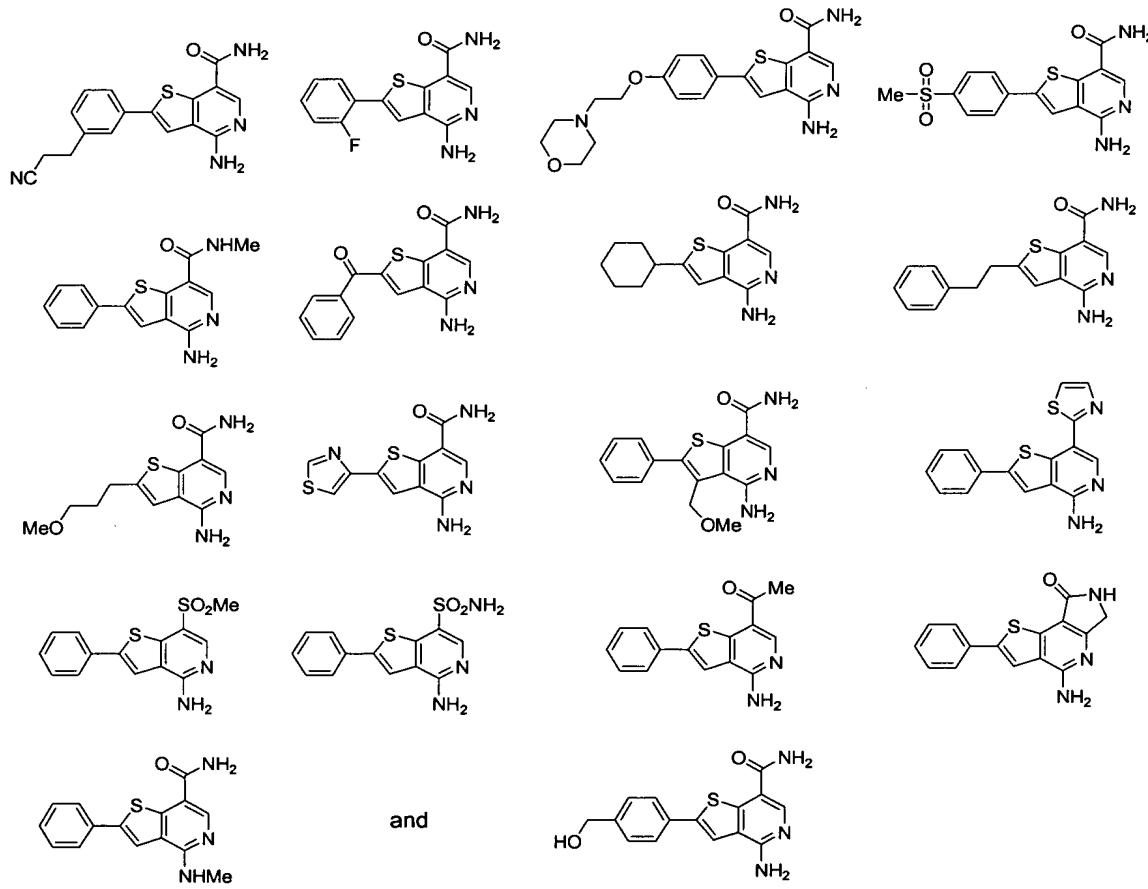
wherein each  $R^{5a}$  is independently from the group consisting of hydrogen, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, hetero(C<sub>1</sub>-C<sub>6</sub>)alkyl, heterocyclo(C<sub>5</sub>-C<sub>8</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl and arylhetero(C<sub>1</sub>-C<sub>4</sub>)alkyl.

1  
29. The compound of Claim 28, wherein R<sup>2</sup> is -NHR<sup>2b</sup>.

1  
2  
30. The compound of Claim 28, wherein R<sup>1</sup> is selected from the group  
consisting of -C(O)NHR<sup>1a</sup>, -SO<sub>2</sub>NHR<sup>1a</sup>, -SO<sub>2</sub>R<sup>1a</sup>, heteroaryl and -C(O)CH<sub>3</sub> and R<sup>2</sup> is  
-NHR<sup>2b</sup>.

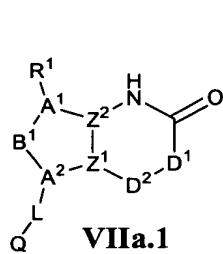
1  
2  
31. The compound of Claim 28, wherein R<sup>1</sup> is selected from the group  
consisting of -C(O)NHR<sup>1a</sup>, -SO<sub>2</sub>NHR<sup>1a</sup>, -SO<sub>2</sub>R<sup>1a</sup>, heteroaryl and -C(O)CH<sub>3</sub>, R<sup>2</sup> is -NHR<sup>2b</sup>  
and each R<sup>5a</sup> is hydrogen.

1  
32. The compound of Claim 31, selected from the group consisting of:

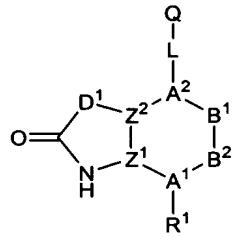


2  
1

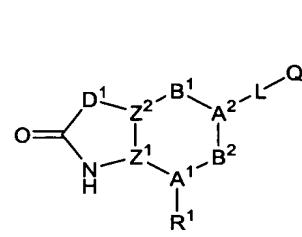
1           33. A compound having a formula selected from the group consisting of:



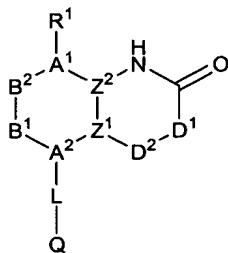
VIIa.1



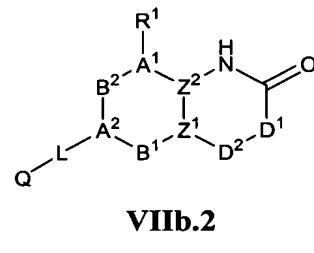
VIIa.2



VIIa.3



VIIb.1



VIIb.2

3           4 or a pharmaceutically acceptable salt, hydrate, solvate or prodrug thereof, wherein

5           R<sup>1</sup> is selected from the group consisting of -C(O)NR<sup>1a</sup>R<sup>1b</sup>, -C(O)R<sup>1a</sup>, -CH(=NOH),

6           -N(R<sup>1b</sup>)C(O)R<sup>1a</sup>, -SO<sub>2</sub>NR<sup>1a</sup>R<sup>1b</sup>, -SO<sub>2</sub>R<sup>1a</sup>, -C(O)N(R<sup>1a</sup>)OR<sup>1b</sup>, -(C<sub>1</sub>-C<sub>4</sub>)alkylene-

7           N(R<sup>1b</sup>)C(O)R<sup>1a</sup>, -(C<sub>1</sub>-C<sub>4</sub>)alkylene-C(O)NR<sup>1a</sup>R<sup>1b</sup> and heteroaryl; wherein R<sup>1a</sup> and

8           R<sup>1b</sup> are selected from hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>4</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)heteroalkyl,

9           hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkyl, fluoro(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyano(C<sub>1</sub>-C<sub>4</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl,

10          mono- or di-hydroxycyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, heterocyclo(C<sub>3</sub>-

11          C<sub>8</sub>)alkyl-(C<sub>1</sub>-C<sub>4</sub>)alkyl; and optionally, R<sup>1a</sup> is attached to an adjacent ring member

12          of W relative to the point of attachment of R<sup>1</sup> to form an additional 5- or 6-

13          membered fused ring, or R<sup>1a</sup> and R<sup>1b</sup> are combined with their intervening atoms to

14          form a 3-, 4-, 5- or 6-membered ring;

15          L is a divalent linkage selected from the group consisting of a single bond, (C<sub>1</sub>-

16          C<sub>4</sub>)alkylene, -C(O)-, -C(O)N(R<sup>3</sup>)-, -SO<sub>2</sub>N(R<sup>3</sup>)-, -C(R<sup>3</sup>)=C(R<sup>4</sup>)-, -O-, -S-

17          and -N(R<sup>3</sup>)-; wherein R<sup>3</sup> and R<sup>4</sup> are independently selected from the group

18          consisting of hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl,

19          hetero(C<sub>1</sub>-C<sub>6</sub>)alkyl, heterocyclo(C<sub>5</sub>-C<sub>8</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl

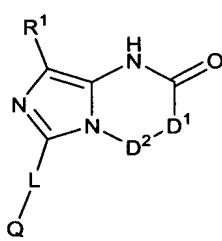
20          and arylhetero(C<sub>1</sub>-C<sub>4</sub>)alkyl;

21          Q is selected from the group consisting of (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy,

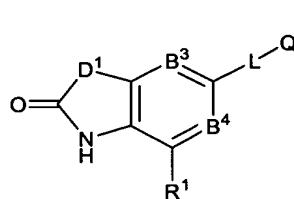
22          halogen, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, heteroaryl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, cyclo(C<sub>5</sub>-C<sub>8</sub>)alkenyl

23 and heterocyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, wherein each of the moieties is optionally further  
 24 substituted,  
 25 A<sup>1</sup> and A<sup>2</sup> are independently selected from the group consisting of =C-, -CH- and -N-;  
 26 B<sup>1</sup> and B<sup>2</sup> are independently selected from the group consisting of =C(R<sup>5a</sup>)-,  
 27 -C(R<sup>5</sup>)(R<sup>6</sup>)-, -C(O)-, =N-, -N(R<sup>5</sup>)-, -O- and -S(O)<sub>m</sub>-;  
 28 D<sup>1</sup> is selected from the group consisting of -C(R<sup>7</sup>)(R<sup>8</sup>)-, -N(R<sup>7</sup>)- and -O-;  
 29 D<sup>2</sup> is selected from the group consisting of -C(R<sup>9</sup>)(R<sup>10</sup>)-, -C(O)-, -N(R<sup>9</sup>)-, -O- and  
 30 -S(O)<sub>n</sub>-;  
 31 optionally, D<sup>1</sup>-D<sup>2</sup> may be -C(R<sup>11</sup>)=C(OR<sup>12</sup>)- or -C(R<sup>11</sup>)=N-,  
 32 Z<sup>1</sup> and Z<sup>2</sup> are independently CH or N;  
 33 each R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup> and R<sup>10</sup> is independently selected from the group  
 34 consisting of hydrogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl,  
 35 hetero(C<sub>1</sub>-C<sub>6</sub>)alkyl, heterocyclo(C<sub>5</sub>-C<sub>8</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl  
 36 and arylhetero(C<sub>1</sub>-C<sub>4</sub>)alkyl;  
 37 each R<sup>5a</sup> is independently selected from the group consisting of hydrogen, halogen, (C<sub>1</sub>-  
 38 C<sub>6</sub>)alkyl, cyclo(C<sub>3</sub>-C<sub>8</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl, hetero(C<sub>1</sub>-C<sub>6</sub>)alkyl,  
 39 heterocyclo(C<sub>5</sub>-C<sub>8</sub>)alkyl, heteroaryl, heteroaryl(C<sub>1</sub>-C<sub>4</sub>)alkyl and arylhetero(C<sub>1</sub>-  
 40 C<sub>4</sub>)alkyl;  
 41 R<sup>11</sup> and R<sup>12</sup> are independently selected from the group consisting of hydrogen and (C<sub>1</sub>-  
 42 C<sub>6</sub>)alkyl, aryl and aryl(C<sub>1</sub>-C<sub>4</sub>)alkyl; and  
 43 the subscripts m and n are independently an integer of from 0 to 2;  
 44 with the proviso that D<sup>1</sup> and D<sup>2</sup> are not both -N(R<sup>9</sup>)- or -O-.

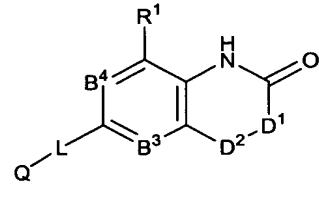
1        34.     The compound of Claim 33, having a formula selected from the group  
 2 consisting of:



VIII



IX



X

5        wherein B<sup>3</sup> and B<sup>4</sup> are independently C(R<sup>5a</sup>) or N.

1                   **35.**    A pharmaceutical composition comprising a pharmaceutically  
2 acceptable carrier, excipient or diluent and a compound of any one of Claims **1-34**.

1                   **36.**    A method for treating or preventing an inflammatory, metabolic,  
2 infectious, cell proliferative or immune disease or condition, said method comprising  
3 administering to a subject in need thereof a therapeutically effective amount of a compound  
4 of any one of Claims **1-34**.

1                   **37.**    A method in accordance with Claim **36**, wherein said inflammatory,  
2 metabolic, infectious, cell proliferative or immune disease or condition is selected from the  
3 group consisting of rheumatoid arthritis, inflammatory bowel disease, psoriasis, cancer,  
4 diabetes, septic shock, asthma, allergic disease, multiple sclerosis and graft rejection.

1                   **38.**    A method in accordance with Claim **36**, wherein said compound is  
2 administered orally, topically, intravenously or intramuscularly.

1                   **39.**    A method in accordance with Claim **36**, wherein said compound is  
2 administered in combination with a second therapeutic agent selected from the group  
3 consisting of prednisone, dexamethasone, beclomethasone, methylprednisolone,  
4 betamethasone, hydrocortisone, methotrexate, cyclosporin, rapamycin, tacrolimus, an  
5 antihistamine, a TNF antibody, an IL-1 antibody, a soluble TNF receptor, a soluble IL-1  
6 receptor, a TNF or IL-1 receptor antagonist, a non-steroidal antiinflammatory agent, a COX-2  
7 inhibitor, an antidiabetic agent, an anticancer agent, hydroxychloroquine, D-penicillamine,  
8 infliximab, etanercept, auranofin, aurothioglucose, sulfasalazine, sulfasalazine analogs,  
9 mesalamine, corticosteroids, corticosteroid analogs, 6-mercaptopurine, interferon  $\beta$ -1 $\beta$ ,  
10 interferon  $\beta$ -1 $\alpha$ , azathioprine, glatiramer acetate, a glucocorticoid and cyclophosphamide.

1                   **40.**    A method for treating or preventing a disease or condition responsive  
2 to IKK modulation, comprising administering to a subject in need thereof a therapeutically  
3 effective amount of a compound of any one of Claims **1-34**.

1                   **41.**    A method for treating or preventing a disease or condition mediated by  
2 IKK, comprising administering to a subject in need thereof a therapeutically effective amount  
3 of a compound of any one of Claims **1-34**.

1                   **42.**    A method for modulating IKK, comprising contacting a cell with a  
2    compound of any one of Claims **1-34**.

1                   **43.**    The method of Claim **42**, wherein said compound inhibits IKK.

1                   **44.**    The method of Claim **42**, wherein said compound inhibits IKK $\beta$ .

1                   **45.**    The method of Claim **42**, wherein said compound inhibits IKK $\beta$  and  
2    IKK $\alpha$ .